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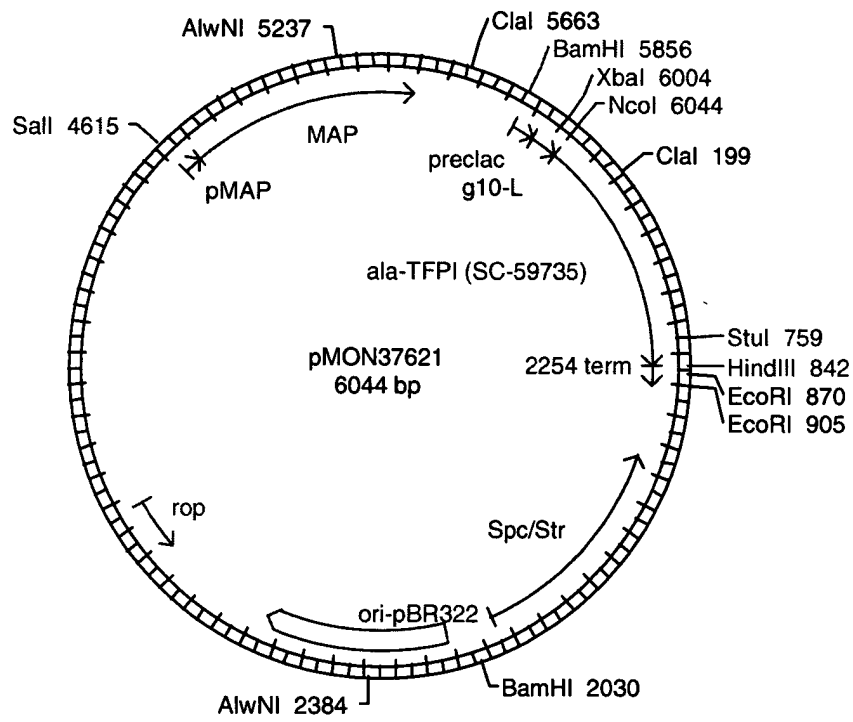
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FIG. 1



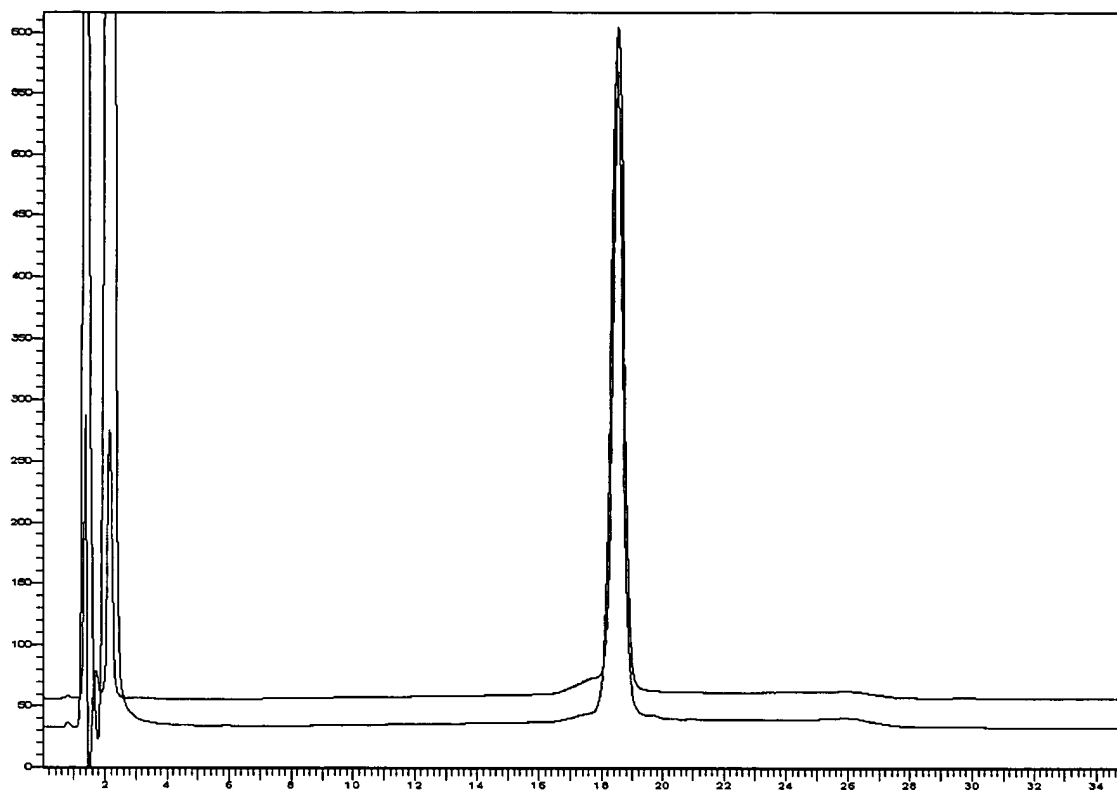


FIG. 2

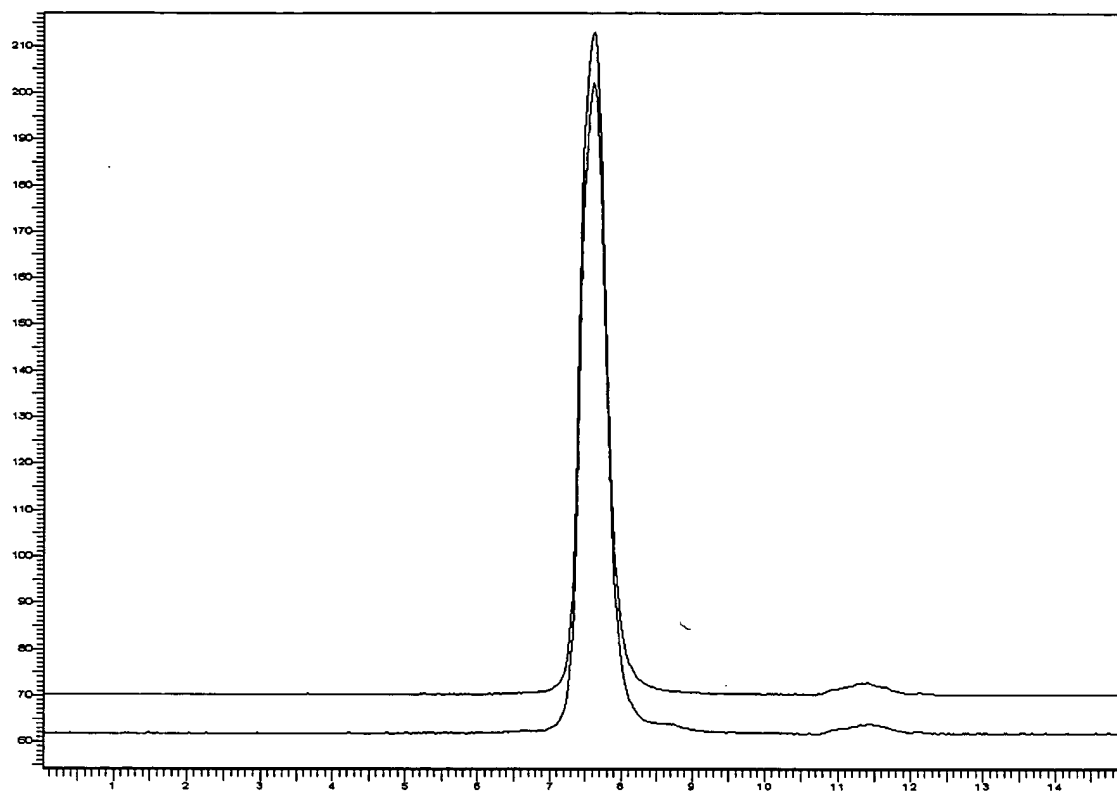


FIG. 3.

1 2 3 4 5 6 7 8 9 10 11 12

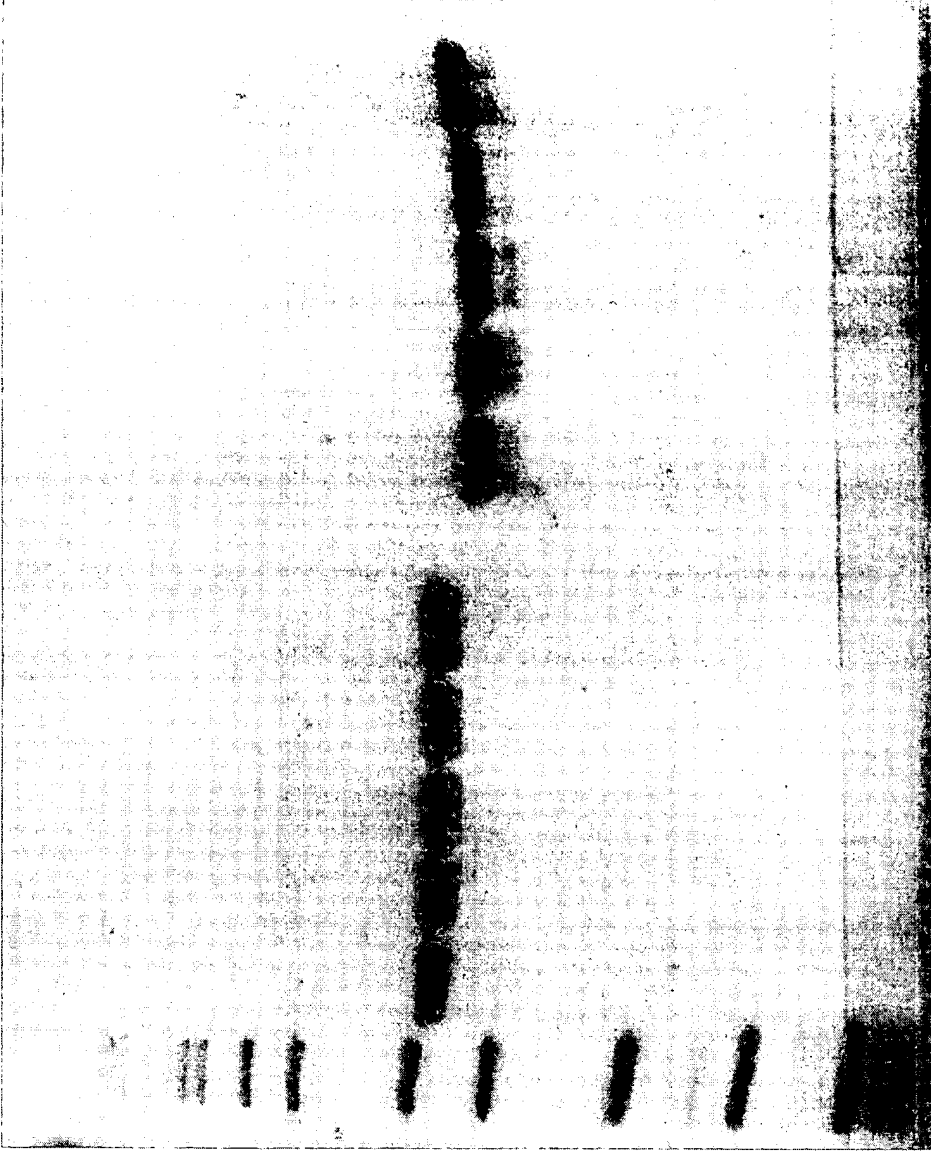


FIG. 4

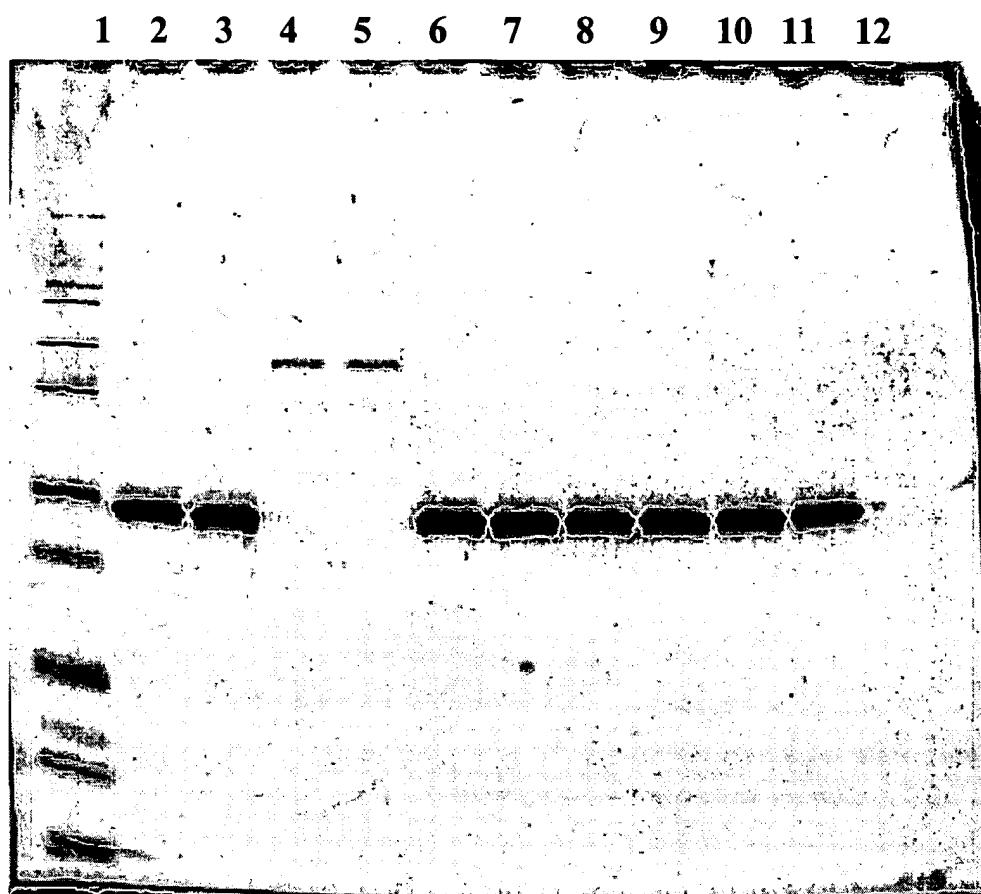


FIG. 5

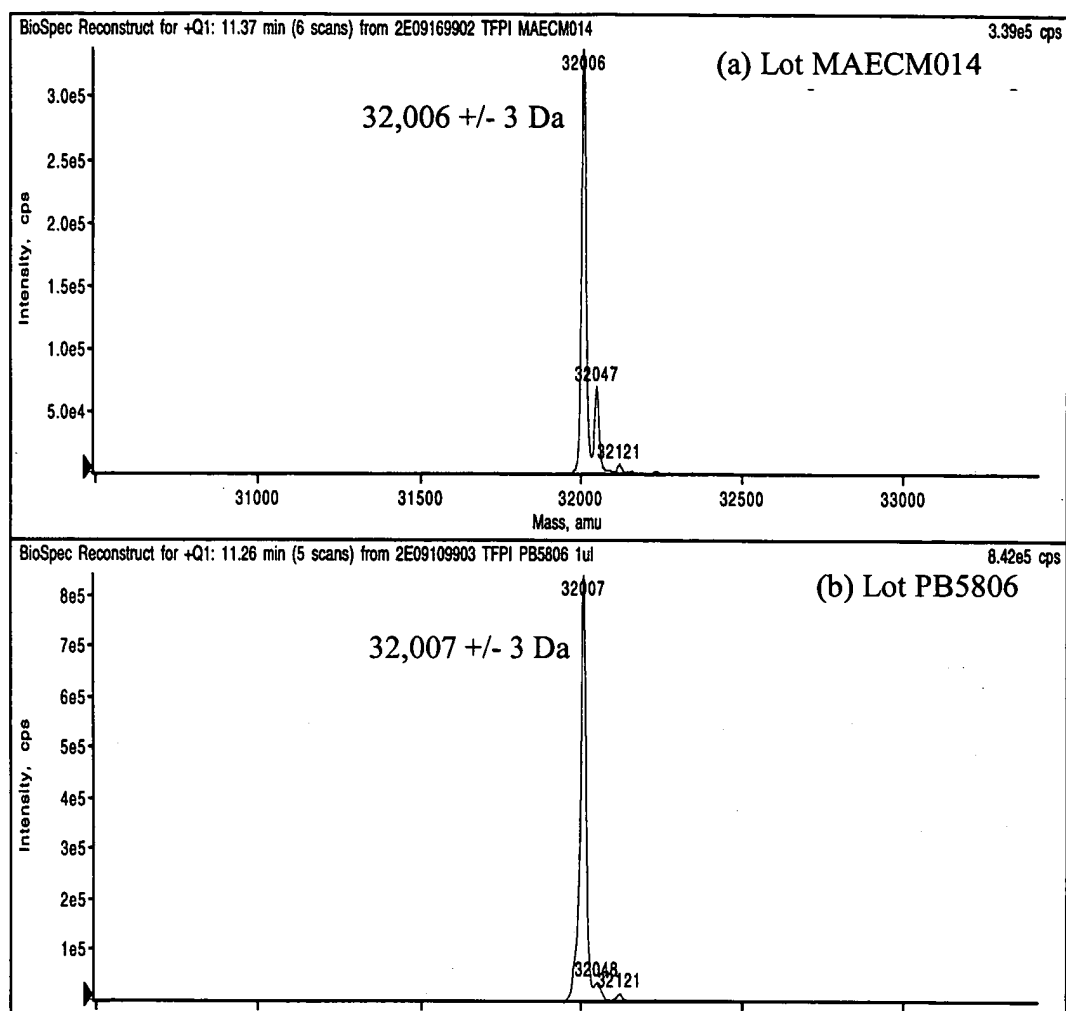


FIG. 6

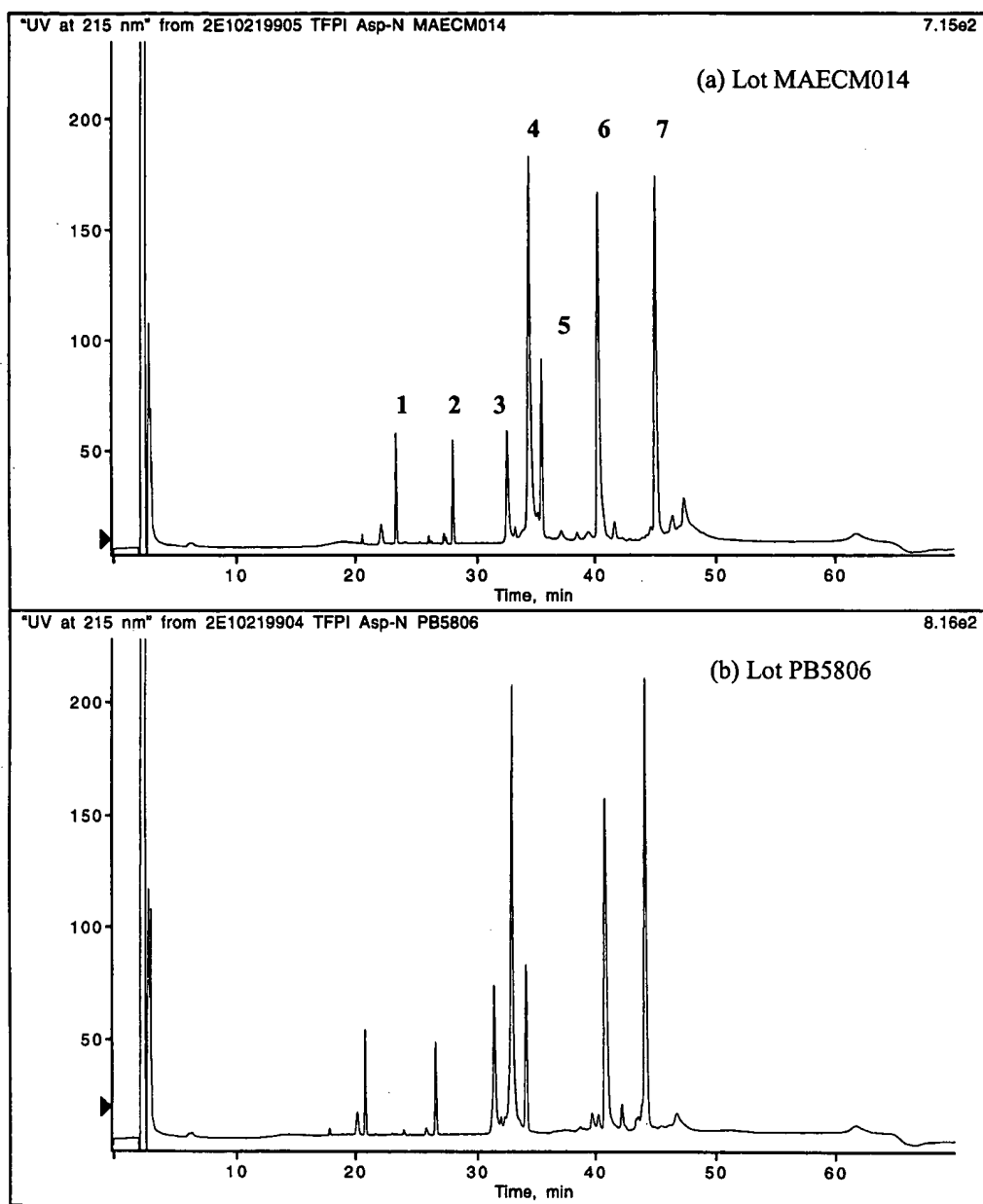
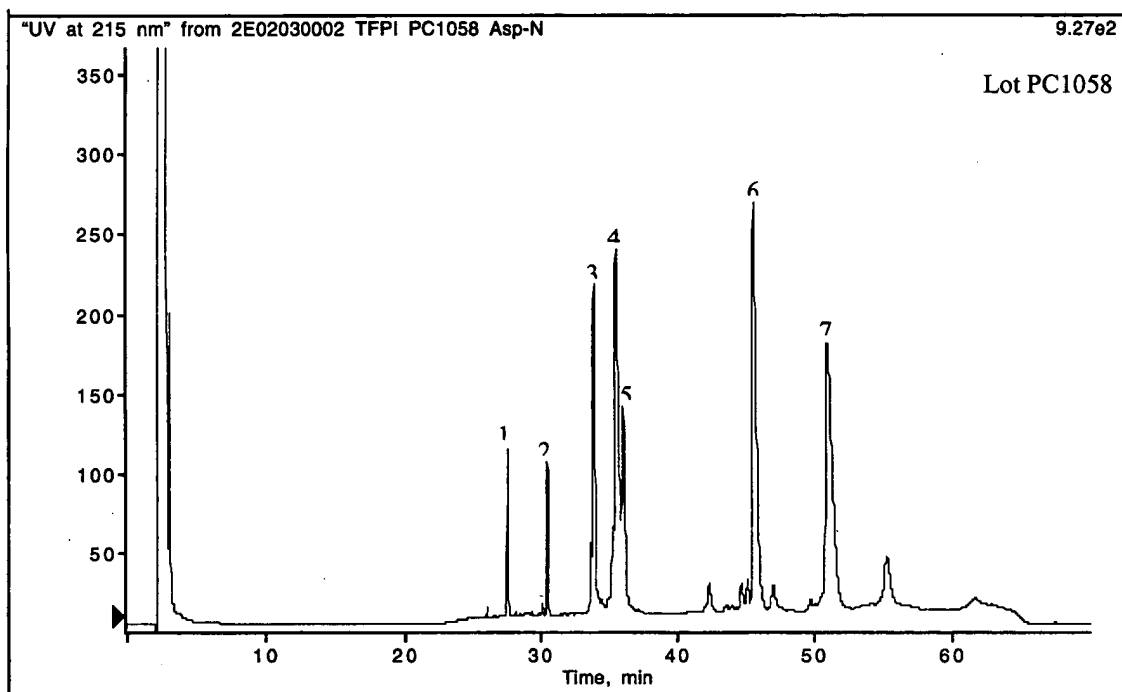


FIG. 7



FIG. 8



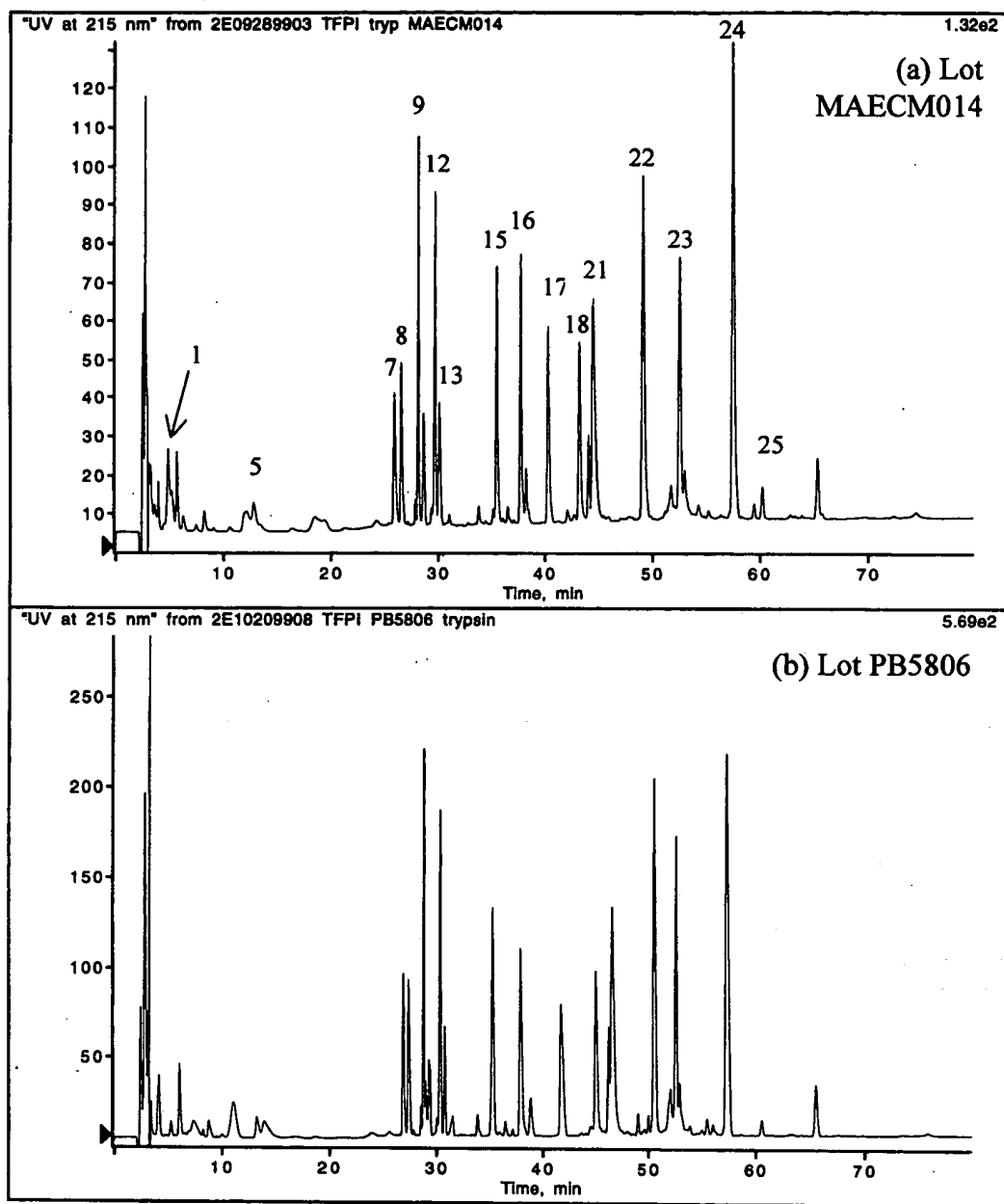


FIG. 9

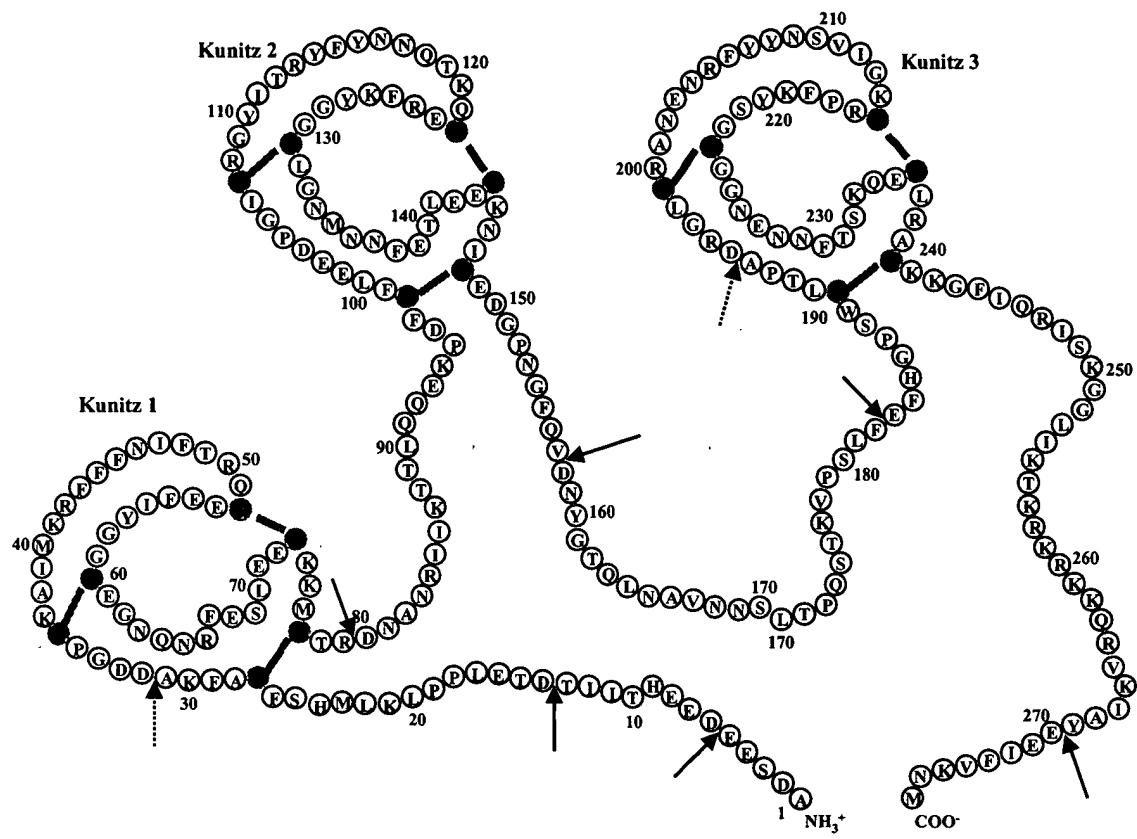


FIG. 10

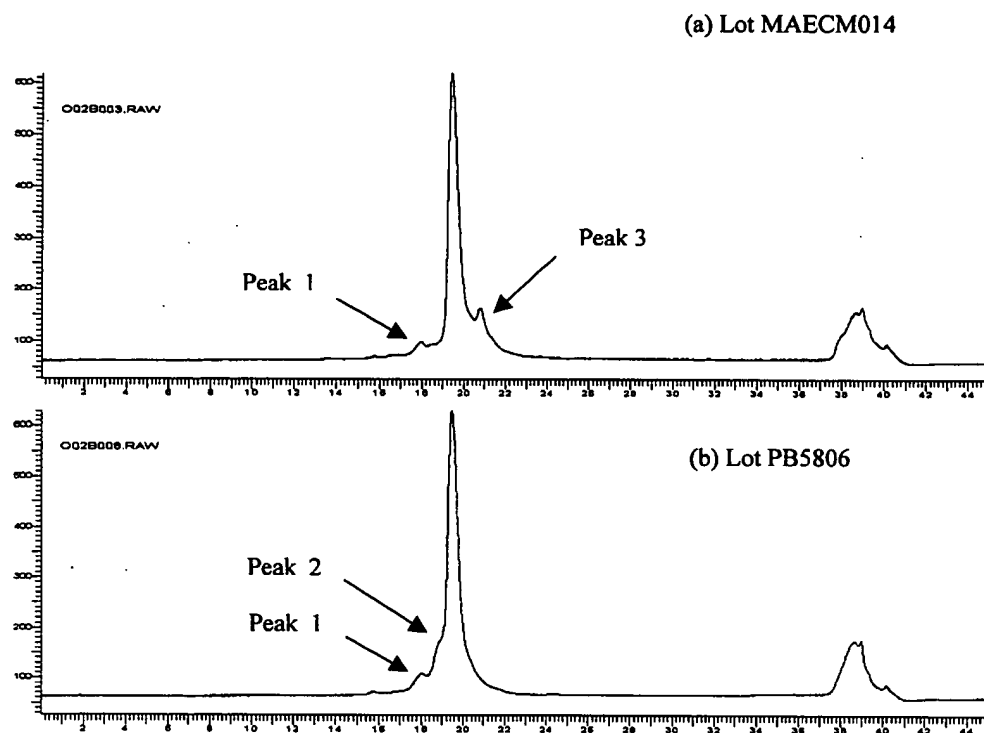


FIG. 11

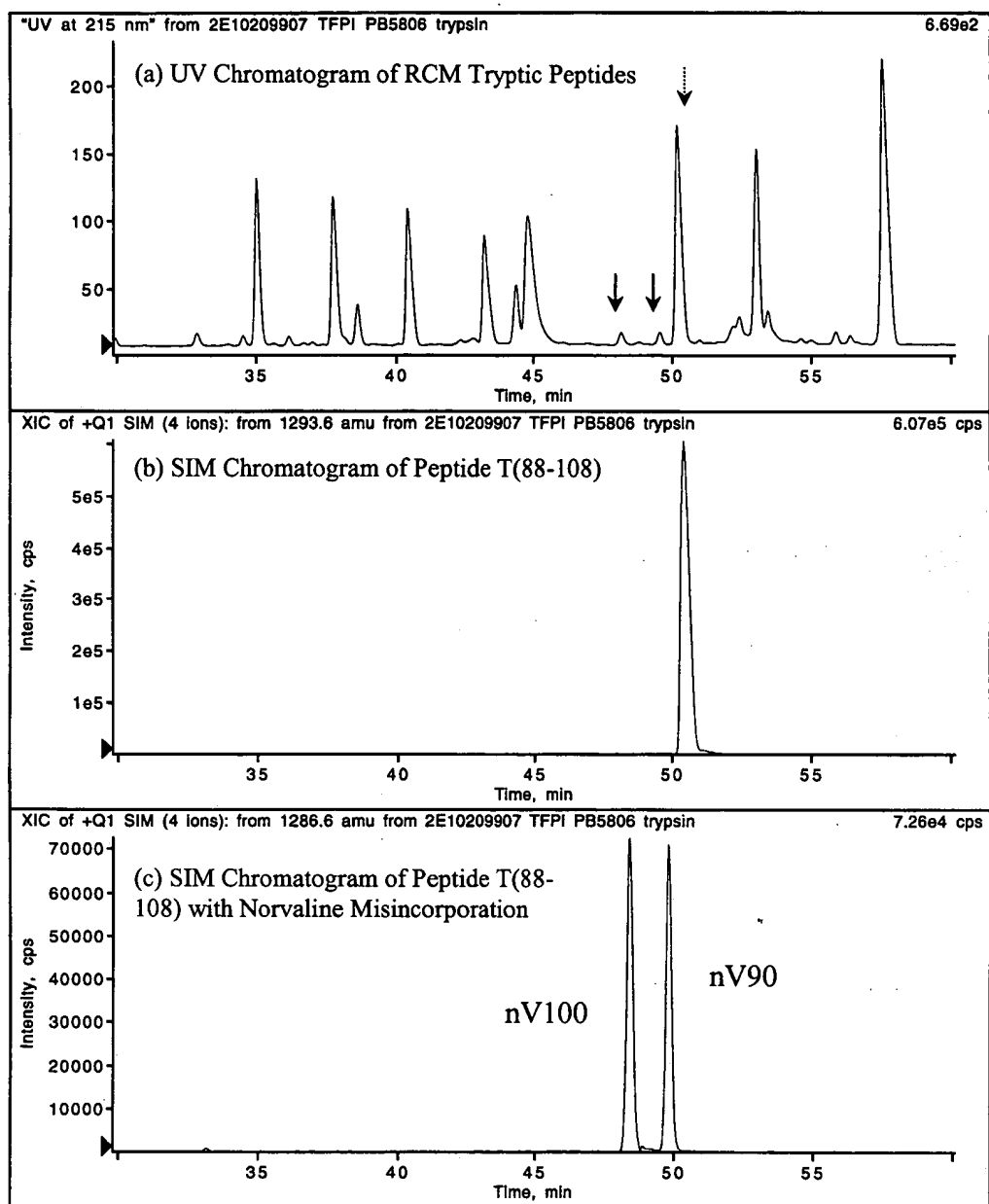


FIG. 12

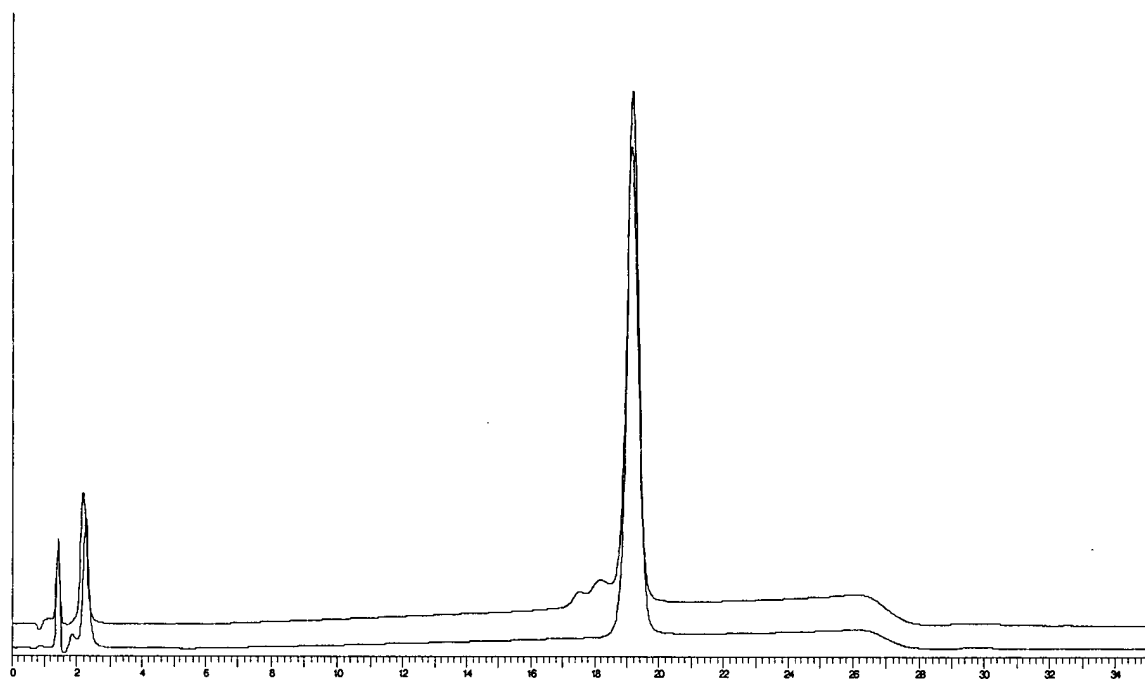


FIG. 13

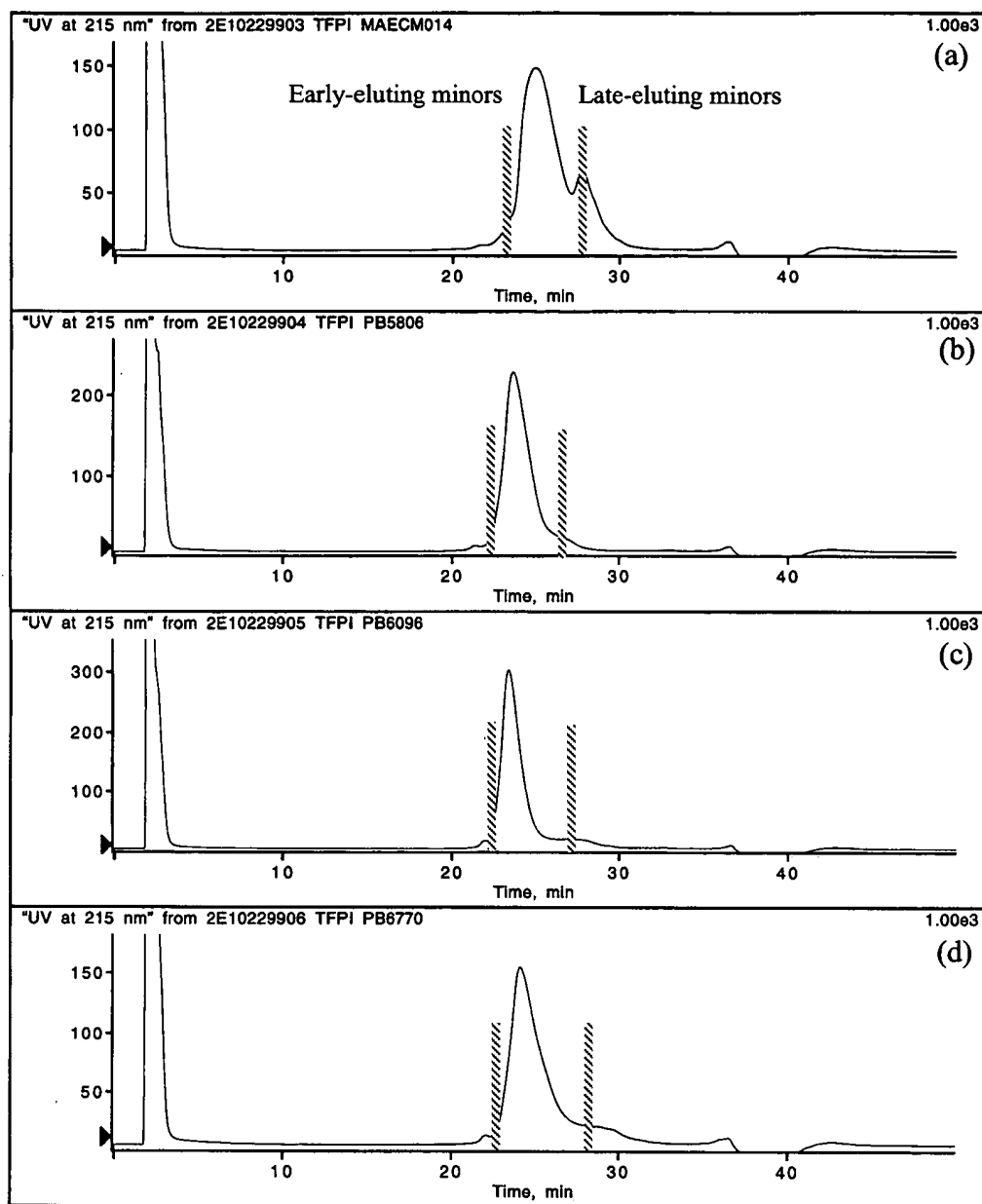


FIG. 14

FIG. 15

→ tac promoter

```
BamHI      SacII                      -35 region of          -10 region of  
|           |                       promoter                lac promoter  
GGATCCCGCGGTTCTGAAATGAGCTGTTCACAATTAATCATCGGCTCGTATAAATGTGTGG  
1 -----+-----+-----+-----+-----+-----+-----+-----+-----+ 60  
CCTAGGGCGCCAAGACTTTACTCGACAACTGTTAATTAGTAGCCGAGCATATTACACACC
```

→Transcription start site

```
                               BglII  
lac operator                    g10-L fragment  
AATTGTGAGCGGATAACAATTTCACACAGATCTGGGCCCTTCGAAATTAATACGACTCAC  
61 -----+-----+-----+-----+-----+-----+-----+-----+ 120  
TTAACACTCGCCTATTGTTAAAGTGTTCTAGACCCGGAAGCTTTAATTATGCTGAGTG
```

XbaI

```
TATAGGGAGACCACAACGGTTTCCCTCTAGAAATAATTTTGTTTAACTTTAAGAAGGAGA  
121 -----+-----+-----+-----+-----+-----+-----+-----+ 180  
ATATCCCTCTGGTGTTGCCAAAGGGAGATCTTTATTAAAACAAATTGAAATTCTTCCTCT
```

Shine-Dalgarno

NcoI

→ Met-Ala-TFPI gene N terminus

```
TATATCCATGGCTGATTCTGAAGAAGATGAAGAACATACTATTATCACTGATACTGAACT  
181 -----+-----+-----+-----+-----+-----+-----+-----+ 240  
ATATAGGTACC GACTAAGACTTCTTCTACTTCTTGTATGATAATAGTGACTATGACTTGA
```

MetAlaAspSerGluGluAspGluGluHisThrIleIleThrAspThrGluLeu -

NsiI

```
GCCACCGCTGAAACTGATGCATTCATTTTGTGCATTCAAGGCGGACGACGGCCCCGTGCAA  
241 -----+-----+-----+-----+-----+-----+-----+-----+ 300  
CGGTGGCGACTTTGACTACGTAAAGTAAACACGTAAGTTCCGCCTGCTGCCGGGCACGTT
```

ProProLeuLysLeuMetHisSerPheCysAlaPheLysAlaAspAspGlyProCysLys -

A            AA A T            T T            A

```
AGCCATCATGAAGCGCTTCTTCTTCAACATCTTCACTCGTCAGTGCGAAGAATTTATATA  
301 -----+-----+-----+-----+-----+-----+-----+-----+ 360  
TCGGTAGTACTTTCGGAAGAAGAGTTGTAGAAGTGAGCAGTCACGCTTCTTAAATATAT
```

AlaIleMetLysArgPhePhePheAsnIlePheThrArgGlnCysGluGluPheIleTyr -

39



ClaI  
 |  
 AAGT G G A A

361 TGGGGGATGTGAAGGAAATCAGAATCGATTTGAGTCCCTCGAAGAATGCAAGAAGATGTG 420  
 -----+-----+-----+-----+-----+-----+  
 ACCCCCTACACTTCCTTTAGTCTTAGCTAAACTCAGGGAGCTTCTTACGTTCTTCTACAC  
 GlyGlyCysGluGlyAsnGlnAsnArgPheGluSerLeuGluGluCysLysLysMetCys -  
 75

T AA A T T  
 421 CACCCGCGACAACGCAAACAGGATTATAAAGACAACATTGCAACAAGAAAAGCCAGATTT 480  
 -----+-----+-----+-----+-----+-----+  
 GTGGGCGCTGTTGCGTTTGTCTAATATTTCTGTTGTAACGTTGTTCTTTTCGGTCTAAA  
 ThrArgAspAsnAlaAsnArgIleIleLysThrThrLeuGlnGlnGluLysProAspPhe -

481 CTGCTTTTTTGAAGAAGATCCTGGAATATGTCGAGGTTATATTACCAGGTATTTTTTATAA 540  
 -----+-----+-----+-----+-----+-----+  
 GACGAAAAACCTTCTTCTAGGACCTTATACAGCTCCAATATAATGGTCCATAAAAAATATT  
 CysPheLeuGluGluAspProGlyIleCysArgGlyTyrIleThrArgTyrPheTyrAsn -

541 CAATCAGACAAAACAGTGTGAACGTTTCAAGTATGGTGGATGCCTGGGCAATATGAACAA 600  
 -----+-----+-----+-----+-----+-----+  
 GTTAGTCTGTTTTGTCTACACTTGCAAAGTTCATACCACCTACGGACCCGTTATACTTGTT  
 AsnGlnThrLysGlnCysGluArgPheLysTyrGlyGlyCysLeuGlyAsnMetAsnAsn -

601 TTTTGAGACACTGGAAGAATGCAAGAACATTTGTGAAGATGGTCCGAATGGTTTCCAGGT 660  
 -----+-----+-----+-----+-----+-----+  
 AAAACTCTGTGACCTTCTTACGTTCTTGTAACACTTCTACCAGGCTTACCAAAGGTCCA  
 PheGluThrLeuGluGluCysLysAsnIleCysGluAspGlyProAsnGlyPheGlnVal -

661 GGATAATTATGGAACCCAGCTCAATGCTGTGAATAACTCCCTGACTCCGCAATCAACCAA 720  
 -----+-----+-----+-----+-----+-----+  
 CCTATTAATACCTTGGGTCGAGTTACGACACTTATTGAGGGACTGAGGCGTTAGTTGGTT  
 AspAsnTyrGlyThrGlnLeuAsnAlaValAsnAsnSerLeuThrProGlnSerThrLys -

721 GGTTCACAGCCTTTTTGAATTTACGGTCCCTCATGGTGTCTCACTCCAGCAGACAGAGG 780  
 -----+-----+-----+-----+-----+-----+  
 CCAAGGGTCGGA AAAA ACTTAAAGTGCCAGGGAGTACCACAGAGTGAGGTCGTCTGTCTCC  
 ValProSerLeuPheGluPheHisGlyProSerTrpCysLeuThrProAlaAspArgGly -

781 ATTGTGTCGTGCCAATGAGAACAGATTCTACTACAATTCAGTCATTGGGAAATGCCGCCC 840  
 -----+-----+-----+-----+-----+-----+  
 TAACACAGCACGGTACTCTTGCTAAGATGATGTTAAGTCAGTAACCCTTTACGGCGGG  
 LeuCysArgAlaAsnGluAsnArgPheTyrTyrAsnSerValIleGlyLysCysArgPro -

```

841  ATTTTAAGTACAGTGGATGTGGGGGAAATGAAAAACAATTCTTACTTCCAAACAAGAATGTCT  900
      -----+-----+-----+-----+-----+
      TAAATTCATGTACCTACACCCCCTTTACTTTTGTATAAATGAAGGTTTGTCTTACAGA
      PheLysTyrSerGlyCysGlyGlyAsnGluAsnAsnPheThrSerLysGlnGluCysLeu  -
      GAGGGCATGTAAAAAAGGTTTCATCCAAAGAATATCAAAGGAGGCCTAATTAAAACCAA
901  -----+-----+-----+-----+-----+  960
      CCCCCGTACATTTTTTCCAAAGTAGGTTTCTTATAGTTTTCTCCGGATTAATTTTGGTT
      ArgAlaCysLysLysGlyPheIleGlnArgIleSerLysGlyGlyLeuIleLysThrLys  -
      C terminus of Ala-TFPI coding sequence
      AAGAAAAAGAAAGAAGCAGAGAGTGAAAATAGCATATGAAGAAATTTTTGTATAAAATAT
961  -----+-----+-----+-----+-----+  1020
      TTCTTTTCTTTCTTCGTCTCTCACTTTTATCGTATACTTCTTTAAAAACAATTTTATA
      ArgLysArgLysLysGlnArgValLysIleAlaTyrGluGluIlePheValLysAsnMet  -
      Stop HindIII
      TGA^^^AAGCTT (in pMON6655)
      | Translation Termination
      | HindIII ClaI EcoRI EcoRV P22 term delta
      | | | | |
1021  GTAATAAAAGCTTATCGATGATAAGCTGTCAAACATGAGAATTCGATATCAACGCAACGA  1080
      -----+-----+-----+-----+-----+
      CATTATTTTCGAATAGCTACTATTTCGACAGTTTGTACTCTTAAGCTATAGTTGCGTTGCT
      EndEnd
      EcoRV EcoRI
      | |
1081  CCCAGCCGAAGCTGGGTCGTTGCGTTGATATCGAATTC  1118
      -----+-----+-----+-----+
      GGGTCGGCTTCGACCCAGCAACGCAACTATAGCTTAAG

```

FIG. 16

